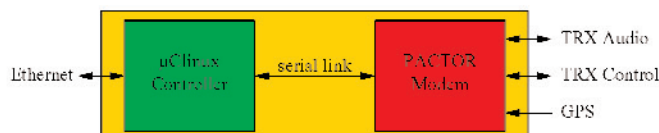


SCS PTC-II net

The Network PACTOR-Controller!

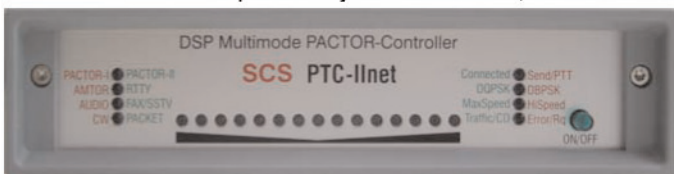
The automatic HF-Internet Gateway for your PACTOR-IP-Bridge Network.

The PTC-II net is a clever combination of a PACTOR modem and an embedded Linux-computer. With this, it represents a complete base-station with Internet-Gateway for a PACTOR-IP-Bridge network. Just connect the PTC-II net to an existing router and configure it using its web-interface.



The Modem Part:

- One single connector to the HF/VHF transceiver for all modes.
- Transceiver control for ICOM, YAESU, SGC, KENWOOD and Rohde&Schwarz, including RS232 for modern transceivers.
- Packet-Radio with 300, R600, 1200, 9600 and 19200 baud with built-in DSP.
- With two high performance processors from *Freescale*, the PTC-II net achieves outstanding flexibility.
- Sophisticated signal processing and analyzing, maintains a stable HF link even during difficult propagation conditions.
- Temperature compensated crystal oscillator.
- Tuning bar display with 15 dual color LED lamps.
- 2 MB of static RAM.
- Electronic (silicon) serial number.
- Noise free HF reception by use of HF suitable construction, 6 layer multilayer board and filtering of all inputs and outputs.
- Compact SMD assembly.
- Flash-ROM for easy firmware updates!
- Dimensions: 125 W x 43 H x 183 D mm.
1.69 H x 6.81 W x 8.07 D inches
- Current consumption only 300 mA at 13,8 V



The Linux Part:

- Embedded Linux module DNP/5282.
- 64 MHz ColdFire processor MCF5282.
- 16 MB RAM, 8 MB Flash.
- 10/100 MBit Ethernet.
- μ Clinux with Kernel 2.4.27.
- Comfortable web-interface for configuration and control.
- Update of μ Clinux, web-interface and the modem firmware easily over the Internet.
- Complete (Linux) source available!

PACTOR-II

- Max. 1200 Bit/s, incl. data compression.
- Automatic adaption to the channel quality in 4 speed levels.
- Bandwidth 500 Hz.
- Use of the most modern transfer mode technics; convolutional coding, Viterbi-decoder, soft-decision and Memory ARQ allows error free data transfers even with inaudible signals.
- Automatic frequency correction of ± 80 Hz.
- Automatic adaption of the radio's transmit power to the channel quality is possible.

PACTOR-III*

Like PACTOR-II, but:

- max. 5200 Bit/s, incl. data compression.
- Automatic adaption to the channel quality in 6 speed levels.
- Bandwidth 2400 Hz..

MACTRA
Marine Equipment

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